

**MICROTEK**

*C580* LCD MONITOR  
USER'S MANUAL



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## FCC Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a installation. If this equipment does cause harmful interference to radio or particular television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ※ Reorient the receiving antenna.
- ※ Increase the separation between the equipment and receiver.
- ※ Connect the equipment into an outlet on a circuit different from which the receiver is connected.
- ※ Consult the dealer or an experienced radio TV technician for help.

**Notice:**

- (1). The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- (2). Shielded interference cables must be used in order to comply with the emission limits.

## Important Safeguards

Please read the following instructions carefully to prevent potential hazards.

1. Follow all warnings and instructions marked on the video monitor.
2. Do not use attachments which is not recommended by the video monitor manufacturer as they may cause hazards.
3. Do not expose the monitor to rain, water, moisture or direct sunlight.
4. Do not place near or over a radiator or other heat-generating equipment.
5. Do not place this video monitor on an unstable cart, stand or table. The video monitor may fall and cause serious injury to child or adult.
6. Do not block or cover ventilation opening with any material. The openings & slots on the cabinet provide necessary air flow for heat dissipation. The unit should never be enclosed or built upon unless adequate ventilation is provided.
7. Do not insert any objects into the video monitor cabinet's slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock.
8. This video monitor is equipped with a 3-wire grounding type plug. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete. Do not defeat the safety purpose of the grounding type plug.
9. Do not overload wall outlets & extension cords as this can result in fire or electric shock.
10. Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards.
11. When the video monitor unused for a long time, please unplug it from the wall outlet
12. Unplug this video monitor from the wall outlet and refer servicing under the following conditions:
  - a. When the power cord or plug is damaged or frayed.
  - b. If liquid has been spilled into the video monitor
  - c. If the video monitor does not operate normally according to operating instructions.
  - d. If the video monitor has been dropped or the cabinet has been damaged

**Note:**

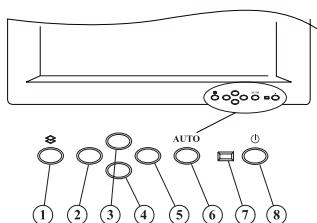
This user's manual for this LCD monitor containing graphics and information is for reference purpose only , which is subject to change without notice

## **Installation**

1. Turn off the computer.
2. Connect the video cable from VGA connector and audio line from output of the computer to the monitor.
3. Connect power cable to the power outlet.
4. Turn on the monitor and the computer. Wait about 30 seconds to adjust the picture with the adjustment controls to obtain the most optimum picture.

**Note:** Please do not press the panel heavily because the surface of LCD panel is soft.

## **Control Key Pads on the Front Panel**



**1. Menu Button :** Press the keypad to enter OSD menu or swap between icon and sub-items in OSD menu.

**2. Left :** Press **◀** button to activate the adjustment of volume when OSD is off. Select icon or adjust the setting value of sub-item in OSD menu.

**3. Up :** Select sub-items in OSD menu.

**4. Down :** Select sub-items in OSD menu.

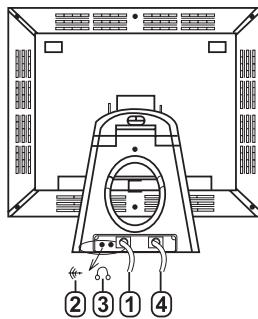
**5. Right :** Press **▶** button to activate the adjustment of brightness when OSD is off. Select icon or adjust the setting value of sub-item in OSD menu.

**6. Auto :** Press the keypad to activate auto tuning when OSD is off. Press the keypad to exit OSD menu or sub-items in OSD menu.

**7. Power LED Indicator** **Green** : Normal operation.  
**Orange** : Enter soft-power off state.  
**Orange Blinking** : No signal input or frequency out of range.

**8 Power Switch :** Press the keypad to power on or off.

## Layout of Cable & Connector on the Back Cover

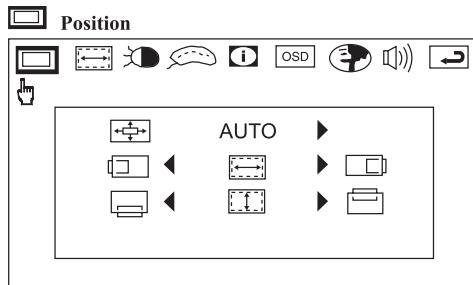


1. D-Sub Connector

2. Audio Line-in

3. Earphone Output (optional)

4.AC In

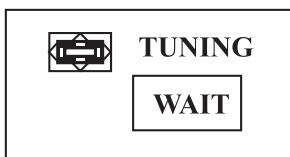


## How to enter OSD Menu

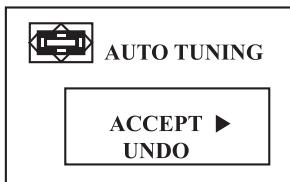
- (1) Press Menu button and the OSD as shown will appear on the screen.
- (2) The OSD Menu contains 9 icons representing 9 functions for adjustment.
- (3) The hand pointing up is used to select the icon.
- (4) Press menu key to make the hand pointing up or down.
- (5) Press up and down key to select sub-item. Press left and right key to change the setting.
- (6) Press Auto to exit OSD Menu.

<b>※ Position</b>	
<b>AUTO</b>	Auto adjust the position, horizontal clock and dot delay.
<b>LEFT/RIGHT</b>	Horizontal position, adjust the horizontal display screen position .
<b>DOWN/UP</b>	Vertical position, adjust the vertical display screen position .
<b>※ Clock</b>	
<b>HORZ. TOTAL</b>	Horizontal total clock, adjust the Horizontal Size to match LCD size.
<b>DOT DELAY</b>	Adjust the dot delay to get best display focus.
<b>RESET</b>	Reset the screen position, clock, H total and dot delay
<b>※ Light / Contrast</b>	
<b>LIGHT</b>	Adjust Brightness of back light
<b>CONTRAST</b>	Adjust the screen Contrast.
<b>BLACK LEVEL</b>	Adjust the screen black level.
<b>RESET</b>	Reset the light, contrast and black level to the default settings
<b>※ Color</b>	
<b>RED</b>	Adjust the contrast of red on screen.
<b>GREEN</b>	Adjust the contrast of green on screen.
<b>BLUE</b>	Adjust the contrast of blue on screen.
<b>WARM NORM COLD</b>	Select the different color temperature setting. Warm means all the colors are with a little red. Cold means all the colors are with a little blue.
<b>RESET</b>	Reset color setting.
<b>※ Screen Status</b>	Display signal input resolution and H,V frequency .
<b>※ OSD Utility</b>	
<b>OSD TIMER</b>	Select the duration of no operation to exit OSD Menu.
<b>OSD HORIZONTAL</b>	Adjust OSD windows Horizontal position.
<b>OSD VERTICAL</b>	Adjust OSD windows Vertical position.
<b>※ Language :</b>	Select language for OSD menu.
<b>※ Sound</b>	
<b>VOLUME</b>	Adjust volume.
<b>※ Reset All</b>	
<b>EXECUTE</b>	Default monitor setting to factory setting.

## Message of Auto Tuning



Once you activate Auto Tuning, the following view indicating that the unit is executing Auto Tuning will be prompted.

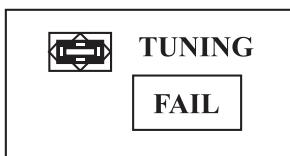


Successfully executing Auto Tuning, select ACCEPT by pressing ▶ key to confirm the adjustment Select UNDO to cancel the adjustment.

If you do not make any selection within 5 seconds, then the unit will automatically confirm the adjustment.

### Notice

1. This function has to be executed when **full screen** picture is displayed. When the screen is painted with black or character strings on the black background, this function may not perform correct tuning. When the displayed picture is not suitable for tuning, the failure message as shown below is displayed and tuning is aborted.

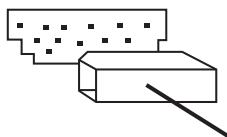


2. This function is a supplemental tool. If the performance of the screen is not good enough after executing the function, please re-execute the function or enter the OSD menu to make adjustment by manual to make the screen become clear.

## **Message of Video Input**

The message below will be displayed when horizontal and vertical synchronous signal from outside is off or out of acceptable range of this system. This message is erased in about 5 seconds and the system goes into the power saving mode.

(1) No H\_sync or V\_sync input



(2) H\_sync or V\_sync out of range

<b>OUT OF RANGE</b>
<b>HSYNC : 43.2 KHz</b>
<b>VSYNC : 85.0 Hz</b>
<b>WORK RANGE</b>
<b>HS : 31.5 -60.0 KHz</b>
<b>VS : 56- 75 Hz</b>

## **Factory Default Timing Setting**

<b>Resolution</b>	<b>H/V Frequency</b>	<b>CLK count of H period</b>
640 x 350	31.5 KHz / 70.1 Hz	800
640 x 400	31.5 KHz / 70.1 Hz	800
720 x 400	31.5 KHz / 70.1 Hz	900
640 x 480	31.5 KHz / 60.0 Hz	800
640 x 480	35.0 KHz / 66.7 Hz (Macintosh)	864
640 x 480	37.9 KHz / 72.8 Hz	832
640 x 480	37.5 KHz / 75.0 Hz	840
800 x 600	35.2 KHz / 56.3 Hz	1024
800 x 600	37.8 KHz / 60.3 Hz	1056
800 x 600	48.0 KHz / 72.2 Hz	1040
800 x 600	46.9 KHz / 75.0 Hz	1056
832 x 624	49.7 KHz / 74.6 Hz (Macintosh)	1152
1024 x 768	48.2 KHz / 60.0 Hz	1344
1024 x 768	56.5 KHz / 70.1 Hz	1328
1024 x 768	60.0 KHz / 75.0 Hz	1312

### **Note**

Some brand of display cards may be not compatible with the LCD monitor due to the weak input signal or inappropriate grounding wires. We suggest users to alter the resolution, frequency or displaying card in order to ensure the best quality for display.

## Specifications

<b>LCD type</b>	15.1" XGA Color TFT
<b>Input Signal</b>	Analog (0.7Vp-p/75 ohm positive)
<b>Dot Pitch</b>	0.30 mm
<b>Scanning frequency</b>	(H) 31.5KHz-60KHz (V) 56Hz-75Hz
<b>Resolution</b>	1024x768 800x600 832x624 640x480 720x400 640x400 640x350
<b>Pixel Rate</b>	80 MHz (maximum)
<b>Display Color</b>	16.19M colors with dithering
<b>View Angle (CR&gt;10)</b>	Horizontal: 120° (typ.) Vertical: 90° (typ.)
<b>Control Type</b>	OSD
<b>Plug &amp; Play</b>	VESA DDC1/2B
<b>Audio</b>	Internal Speaker
<b>Dimension (mm)</b>	
<b>Panel (HxWxD)</b>	320x396x60.5 mm
<b>Base (WxD)</b>	220x171.5 mm
<b>Overall (HxWxD)</b>	377x396x171.5 mm
<b>Tilt</b>	Up 19° Down 4°
<b>AC Input</b>	AC 100 V ~240 V
<b>Power Management</b>	VESA DPMS
<b>Power Dissipation</b>	28W
<b>Regulatory Compliance</b>	UL/C-UL, TUV/GS, FCC Class B, CE VCCI, TCO 99 (optional), CNS 13438
<b>Ambient Temperature</b>	5 ~40° (operating) , -20 ~60° (storage)
<b>Humidity (Relative)</b>	20%~80% non-condensing (operating) 10%~90% non-condensing (storage)

## **Energy Declaration**

This monitor is equipped with a function for saving of energy which supports the VESA Display Power Management Signaling ( DPMS ) standard. This means that the monitor must be connected to which supports VESA DPMS to fulfill the requirement in the NUTEK specification. Time settings are adjusted from the system unit by software. From indicated inactivity to Power Saving Position A2 the total time must not be set to more than 70 minutes.

NUTEK	VESA State	LED Indicator	Power Consumption
Normal operation	ON	Green	35 W ( Max )
Power Saving Position A1	SUSPEND	Orange-Flash	5 W ( Max )
Power Saving Position A2	OFF	Orange-Flash	5 W ( Max )

We recommend you to switch off the monitor when it is not in use for quite a long time

## **Cleaning the LCD Screen**

1. Make Sure the LCD monitor is turned off and never spray or pour any liquid directly onto the screen or case.
2. Wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles.
3. If still not clean, apply a small amount of **non-ammonia, non-alcohol** based glass cleaner onto a clean, soft, lint-free cloth, and wipe the screen.

## Trouble-Shooting

If you are experiencing difficulties with your monitor, check the following table for possible solutions.

Problem	Items to check
? No picture	<ol style="list-style-type: none"><li>1. The VGA card should be completely seated in the slot.</li><li>2. Power switch of the monitor and the PC should be in the ON position.</li><li>3. The signal cable should be completely connected to the video card / computer.</li><li>4. Check if the pins of the connector are bent or shrunk.</li></ol>
? Image is scrolling or unstable	<ol style="list-style-type: none"><li>1. The signal cable should be completely connected to the computer.</li><li>2. Check the pin assignments and signal timings of the monitor and your video card.</li></ol>
? LED on the monitor is not lit	<ol style="list-style-type: none"><li>1. The adapter should be connected to DC Jack and AC outlet.</li></ol>
? Picture is fuzzy	<ol style="list-style-type: none"><li>1. Adjust the Dot Delay control or use Auto Tuning function.</li></ol>
? Picture bounces or wave pattern is present in the picture	<ol style="list-style-type: none"><li>1. Move electrical devices that may be causing electrical interference away from the monitor.</li><li>2. Refer to the FCC information of this manual.</li></ol>
? Display image is not centered, too small, or too large	<ol style="list-style-type: none"><li>1. Adjust Size and Position Controls in the OSD or use Auto tuning function.</li></ol>